



Patent US 204
Attorney Docket: 161,700-043

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

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What is claimed is:

1-18. (Cancelled)

19. (Original) A method for increasing cerebral blood flow in a patient, comprising the steps of:

- providing an elongate member having a proximal end, a distal end, and an electrical stimulating device mounted on the distal end of the elongate member;
- inserting the elongate member between lumbar vertebrae, low cervical vertebrae, or high thoracic vertebrae into the subarachnoid space;
- advancing the electrical stimulating device cephalad and positioning the electrical stimulating device adjacent the brain stem; and
- operating the electrical stimulating device to stimulate or inhibit nerve impulses of the brain stem, thereby producing vasodilation in the cerebral vasculature, thereby increasing cerebral blood flow.

20-26. (Cancelled)

27. (Original) A method for increasing cerebral blood flow in a patient, comprising the steps of:

providing an elongate member having a proximal end, a distal end, and an electrical stimulating device mounted on the distal end of the elongate member;

inserting the elongate member between lumbar vertebrae, low cervical vertebrae, or high thoracic vertebrae into the subarachnoid space;

advancing the electrical stimulating device cephalad and positioning the electrical stimulating device adjacent the cervical sympathetic chain; and

operating the electrical stimulating device to stimulate or inhibit nerve impulses of the cervical sympathetic chain, thereby producing vasodilation in the cerebral vasculature, thereby increasing cerebral blood flow.

28-53. (Cancelled)

54. (New) The method of claim 19, further comprising the steps of measuring cerebral blood flow before and after the step of operating the electrical stimulating device.

55. (New) The method of claim 54, further comprising the step of determining the increase in cerebral blood flow produced by operating the electrical stimulating device.

56. (New) The method of claim 19, wherein the electrical stimulating device is positioned at a region adjacent the medulla.

57. (New) The method of claim 19, wherein the electrical stimulating device is a GRASS stimulator.

58. (New) The method of claim 19, wherein the electrical stimulating device is operated to produce electrical stimulation comprising a rectangular square pulse.

59. (New) The method of claim 19, wherein the electrical stimulating device is operated to produce electrical stimulation comprising a pulse of 1 msec duration, 50 Hz, and 10 volts, with a stimulus train duration of 20 msec.

60. (New) The method of claim 19, wherein the electrical stimulating device is operated to produce electrical stimulation comprising a pulse of 0.1-3 msec duration, 25-75 Hz, and 5-15 volts, with a stimulus train duration of 10-30 msec.

61. (New) The method of claim 27, further comprising the steps of measuring cerebral blood flow before and after the step of operating the electrical stimulating device.

62. (New) The method of claim 28, further comprising the step of determining the increase in cerebral blood flow produced by operating the electrical stimulating device.

63. (New) The method of claim 27, wherein the electrical stimulating device is positioned at a region adjacent the superior cervical ganglion.

64. (New) The method of claim 27, wherein the electrical stimulating device is positioned at a region adjacent the stellate ganglion.

65. (New) The method of claim 27, wherein the electrical stimulating device is a GRASS stimulator.

66. (New) The method of claim 27, wherein the electrical stimulating device is operated to produce electrical stimulation comprising a rectangular square pulse.

67. (New) The method of claim 27, wherein the electrical stimulating device is operated to produce electrical stimulation comprising a pulse of 1 msec duration, 50 Hz, and 10 volts, with a stimulus train duration of 20 msec.

68. (New) The method of claim 27, wherein the electrical stimulating device is operated to produce electrical stimulation comprising a pulse of 0.1-3 msec duration, 25-75 Hz, and 5-15 volts, with a stimulus train duration of 10-30 msec.